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DATE MAILED: 07/01/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
· 09/904,237	07/12/2001	Zilan Shen	INTL-0582-US (P11591)	2116
7:	590 07/01/2003			
Timothy N. Trop			EXAMINER	
TROP, PRUNER & HU, P.C. 8554 KATY FWY, STE. 100 HOUSTON, TX 77024-1805			SOWARD, IDA M	
			ART UNIT	PAPER NUMBER
			2822	

Please find below and/or attached an Office communication concerning this application or proceeding.

		AP				
·	Application No.	Applicant(s)				
	09/904,237	SHEN, ZILAN				
Office Action Summary	Examiner	Art Unit				
	Ida M Soward	2822				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply	//	0) ===014				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on 22 A	April 2003 .					
2a)⊠ This action is FINAL . 2b)□ Th	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-10 and 18-28</u> is/are pending in the	application.					
4a) Of the above claim(s) is/are withdraw	• •					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-10 and 18-25</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents	s have been received.					
Certified copies of the priority documents	s have been received in Application	on No				
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) Patent Application (PTO-152)				
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U.S. Patent and Tredemark Offic PTO-326 (Rev. 04-01)

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DETAILED ACTION

This Office Action is in response to the remarks filed April 22, 2003.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 and 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Admitted Prior Art Figures 7-8 in view of Montague (US 2003/0001715 A1).

Admitted Prior Art Figures 7-8 teach a display 10 comprising: a transparent first electrode (row) 12; a second electrode (column) 14; and an organic light emitting material 16 between the first and second electrodes. However, Admitted Prior Art Figures 7-8 fail to teach a fuse between an electrode and light emitting material.

Montague teaches a fuse 110 between an electrode PLUG and a light emitting material 100 (Figure 6, page 3, paragraphs [0043]-[0046]). Also, it is within the level of ordinary skill to interchange columns with rows and rows with columns. Since Admitted Prior Art Figures 7-8 and Montague are both from the same field of endeavor (fuse structures), the purpose disclosed by Montague would have been recognized in the pertinent art of Admitted Prior Art Figures 7-8. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the OLED of

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Admitted Prior Art Figures 7-8 by incorporating the fuse of Montague to provide protection against overloading devices (page 1, paragraphs [0003]-[0004]).

Claims 4, 7-8 and 18-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Admitted Prior Art Figures 7-8 and Montague (US 2003/0001715 A1) as applied to claims 1-3 and 5-6 above, and further in view of Marr et al. (US 2002/0005564 A1).

Admitted Prior Art Figures 7-8 and Montague teach all mentioned in the rejection above. However, Admitted Prior Art Figures 7-8 and Montague fail to teach a fuse formed as a reduced width section of a non-transparent electrode. Marr et al. teach a fuse 20 formed as a reduced width section of a non-transparent electrode 24 (Figure 1A, pages 3-4, paragraphs [0040]-[0046]). Marr et al. further teach the fuse 20 extending transversely from a first electrode (Figures 1A-1B) and electrodes 224 & 226 deposited on a transparent sheet 212 (page 5, paragraphs [0058]-[0059]). Since Admitted Prior Art Figures 7-8, Montague and Marr et al. are from the same field of endeavor (fuse structures), the purpose disclosed by Marr et al. would have been recognized in the pertinent art of Admitted Prior Art Figures 7-8 and Montague. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the OLED of Admitted Prior Art Figures 7-8 and the fuse of Montague by incorporating the reduced width section of Marr et al. to provide the simplest and most compact means of programming a semiconductor device (page 1, paragraph [0008]).

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Claims 9 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Admitted Prior Art Figures 7-8, Montague (US 2003/0001715 A1) and Marr et al. (US 2002/0005564 A1) as applied to claims 1-3 and 5-8 above, and further in view of Silvestre (US 2002/0036471 A1).

Admitted Prior Art Figures 7-8, Montague and Marr et al. teach all mentioned in the rejection above. However, Admitted Prior Art Figures 7-8, Montagure and Marr et al. fail to teach a fuse that includes a contact that contacts the light emitting material, the fuse including a fusible element between the contact and an electrode. Silvestre teaches a fuse 10 that includes a contact that contacts the light emitting material 11, the fuse including a fusible element between the contact and an electrode (Figures 1-2, pages 1-2, paragraphs [0014]-[0018]). Since Admitted Prior Art Figures 7-8, Montague, Marr et al. and Silvestre are from the same field of endeavor (fuse structures), the purpose disclosed by Silvestre would have been recognized in the pertinent art of Admitted Prior Art Figures 7-8, Montague and Marr et al. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the OLED of Admitted Prior Art Figures 7-8, the fuse of Montagure and the reduced width section of Marr et al. by incorporating the contact of Silvestre to improve the luminescence of the display (page 1, paragraphs [0001]-[0004]).

Claims 10 and 23-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Prior Art Figures 7-8, Montague (US 2003/0001715 A1), Marr et al. (US

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2002/0005564 A1) and Silvestre (US 2002/0036471 A1) as applied to claims 1-3 and 5-9 above, and further in view of Hilpert (5,859,772).

Admitted Prior Art Figures 7-8, Montague, Marr et al. and Silvestre teach all mentioned in the rejection above. Marr et al. further teach the fuse formed of the same material as the electrode (page 4, paragraphs [0041] and [0045]). However, Admitted Prior Art Figures 7-8, Montague, Marr et al. and Silvestre fail to teach a fuse formed of a material that fails by electron migration when the current density through the fuse exceeds a limit. Hilpert teaches a fuse formed of a material that fails by electron migration when the current density through the fuse exceeds a limit (Abstract). Since Admitted Prior Art Figures 7-8, Montague, Marr et al., Silvestre and Hilpert are from the same field of endeavor (fuse structures), the purpose disclosed by Hilpert would have been recognized in the pertinent art of Admitted Prior Art Figures 7-8, Montague, Marr et al. and Silvestre. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the OLED of Admitted Prior Art Figures 7-8, the fuse of Montague, the reduced width section of Marr et al. and the contact of Silvestre by incorporating the failing fuse of Hilpert to interrupt a short circuit current (abstract).

Response to Arguments

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention

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where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, teaching, suggestion, or motivation is in the reference page 1, paragraphs [0003]-[0004] of Montague).

In response to applicant's argument that Montague is nonanalogous art, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, the Montague reference is reasonably pertinent to the particular problem with which the applicant was concerned.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ida M Soward whose telephone number is 703-305-

3308. The examiner can normally be reached on Monday - Thursday, 6:30 am to 5:00

pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Amir Zarabian can be reached on 703-308-4905. The fax phone numbers

for the organization where this application or proceeding is assigned are 703-872-9318

for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0956.

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June 25, 2003

AMIR ZARABIAN

SUPERVISORY PATENT EXAMINER

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